

# Product: 83001

## Lead Wire, #28 Str SPC, TFE Ins, AWM 1213

Request Sample

### Product Description

High Temp Plastic Lead Wire, 28AWG (7x36) Silver Plated Copper, TFE Insulation, AWM 1213 105C TYPE E MIL-W-16878/4 600V 200C

### Technical Specifications

#### Product Overview

| | |
|---|---|
| Suitable Applications: | high temperature, inter-connection circuits, internal wiring of computer and electronic equipments, (Type E) MIL-W-16878/4 applications |

#### Construction Details

**Conductor**

| Element | No. of Elements | Size | Stranding | Material |
|---|---|---|---|---|
| Conductor(s) | 1 | 28 AWG | 7x36 | SC - Silvered Copper |

**Insulation**

| Material | Nom. Thickness | Nom. Insulation Diameter |
|---|---|---|
| PTFE - Polytetrafluoroethylene | 0.01 in (0.25 mm) | 0.035 in (0.89 mm) |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.035 in (0.89 mm) |

#### Electrical Characteristics

**Electricals**

| Nom. Conductor DCR | Max. Current |
|---|---|
| 12.3 Ohm/1000ft | Mil-Std-975M Table 3.16 (single wire): 1.8 A |

**Voltage**

| UL Voltage Rating |
|---|
| 600 V RMS |

#### Mechanical Characteristics

**Temperature**

| UL Temperature | Operating |
|---|---|
| 200°C | -70°C To +200°C |

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|
| 0.35 in (8.9 mm) | 0.35 in (8.9 mm) |

| | |
|---|---|
| Max. Pull Tension: | 3 lbs (1.4 kg) |
| Bulk Cable Weight: | 1 lbs/1000ft |

#### Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor, Outdoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | VW-1 |
| AWM Compliance: | AWM 1213 |

| | |
|---|---|
| NEMA Compliance: | HP3 |
| Military Compliance: | MIL-W-16878/4 |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.469 Revision Date: 07-03-2024 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---|---|---|---|---|---|
| 83001 010100 | Black | Reel | 100 ft | | E |
| 83001 0101000 | Black | Reel | 1,000 ft | 612825354871 | E S |
| 83001 006100 | Blue, Light | Reel | 100 ft | | E |
| 83001 0061000 | Blue, Light | Reel | 1,000 ft | 612825399193 | E S |
| 83001 001100 | Brown | Reel | 100 ft | | E |
| 83001 0011000 | Brown | Reel | 1,000 ft | 612825399162 | E S |
| 83001 008100 | Gray | Reel | 100 ft | | E |
| 83001 0081000 | Gray | Reel | 1,000 ft | | E S |
| 83001 005100 | Green, Dark | Reel | 100 ft | | E |
| 83001 0051000 | Green, Dark | Reel | 1,000 ft | | E S |
| 83001 003100 | Orange | Reel | 100 ft | | E |
| 83001 0031000 | Orange | Reel | 1,000 ft | 612825399179 | E S |
| 83001 002100 | Red | Reel | 100 ft | | E |
| 83001 0021000 | Red | Reel | 1,000 ft | 612825354888 | E S |
| 83001 007100 | Violet | Reel | 100 ft | | E |
| 83001 0071000 | Violet | Reel | 1,000 ft | 612825399209 | E S |
| 83001 009100 | White | Reel | 100 ft | | E |
| 83001 0091000 | White | Reel | 1,000 ft | 612825378310 | E S |
| 83001 004100 | Yellow | Reel | 100 ft | | E |
| 83001 0041000 | Yellow | Reel | 1,000 ft | 612825399186 | E S |

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